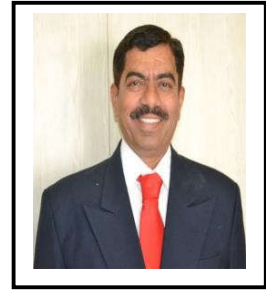


Bio-data

Dr. Jaywant B. Sankpal
Ph.D. (Mechanical Engineering)
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Objective

Enlighten and guide learners to become globally competent technocrats and responsible citizens through devotion, dedication and profession skills. More importantly, working harmoniously in a team to bring forth the best from self & everyone.

Personal Information

Date of Birth	:	15 th September 1966.
Sex	:	Male
Marital Status	:	Married
Fathers Name	:	Bapuji Sankpal
Nationality	:	Indian
Local Address	:	D-7, 204, Lake Town, Uppar-Indira Nagar, Bibwewadi, Pune – 37.
Languages Known	:	English, Hindi and Marathi.

Areas of Interest

Developing the institution as per the norms and standards laid by All India Council for Technical Education (AICTE) and National Board of Accreditation implementing ERP to the educational institute.

Qualifications

- B.E (Mechanical), Govt. College of Engineering. Aurangabad – 1987 – 1st Class
- M.E (Mechanical Design), Govt. College of Engg. Aurangabad – 1995 – 1st Class.
- DBM.
- **Ph.D. Thesis title “STUDIES ON APPROACHES FOR MEASURABILITY IN AUTOMATION OF MANUFACTURING PROCESSES**

Present Position

- Principal in Suman Ramesh Tulsiani Technical Campus-Faculty of Engineering, Khamshet Pune from 26th July 2018 till date.

Professional Experience

- Worked as Trainee Engineer in BAJAJ AUTO LTD. (1987-1988)
- Worked as Lecturer in Mechanical Engineering Department JNEC (1988-1996).
- Worked as Assistant Professor in Mechanical Engineering Department JNEC (1996-2003)
- Worked as Professor in Mechanical Engineering Department JNEC (2003 -2005).
- Worked as a Professor in Mech. Engg. & “Principal” G.H.Raisoni College of Engineering & Management, Wagholi, Pune (2005 -2008).
- Worked as a Professor in Mech. Engg. & “Principal” Trinity College of Engineering & Research, Pisoli, Pune (2008 -2012).
- Worked as Principal Universal College Of Engineering Pune June 2012 to August 2013.
- Professor and Head of Department Mechanical Engineering in Army Institute of Technology Pune (2013-2017).
- Worked as Director in G. H. Raisoni College of Engineering and Management, Pune from 7th February 2017 till 27th May 2018

Workshop, Seminars / Organization and Participation

- Workshop on **Teaching Methodology for Engineering Teachers** in J.N. Engineering College.
- Workshop on **Low Cost Automation** at J.N. Engineering College.
- Workshop on **Managerial Excellence** by Dr. Athreya.
- International seminar on **Refrigeration and Air conditioning**.
- Second state level convention of ISTE arranged in JNEC.
- Workshop on **Rational Emotive Therapy** by Mr. Kishor Phadke at JNEC.
- Actively organized the council meeting of Institution of Engineers (I) (IE (I)) held at Aurangabad with JNEC.
- Organized one-day workshop on **Goal setting and achievement motivation** by Pramod Batra with co-ordination with IE (I).
- Regional workshop for **Review of Undergraduate Education in the country** in VIT Pune on 23, 24 may 2003.
- Organized Shri Jethabhai Patel memorial lecture in Annual General Meeting of Maharashtra State Center of IE (I) in co-ordination with JNEC.
- Organized the felicitations of freedom fighters of Marathwada Mukti Sangram

- Attended a three days workshop **A Blue Print of Success** by Shiv Khera.
- Organized and Worked as Staff Convener for State Level Technical Events Contest JNEC.NXT.05 on 11 and 12 April 2005.

Membership of Professional bodies

- Life Member of Institution of Engineers India IE(I) and presently working as Honorary Secretary of IE (I) Aurangabad center. Membership No: - 8243.
- “Chartered Engineer’ Institution of Engineers (I). Membership No: - M124122-7.
- Life Member of Indian Society for Technical Education. Membership No: -049926001361.
- Life Member of QCFI (Quality Circle Forum of India). Membership No: - M124122-7.

Patents

1. Work Bench with USB microscope for micro-art on rice. PD 12-02-2016
Patent No. 201621002053
2. Deicing of wind turbine blades using resistive heating along with a super capacitor.
PD 06-10-2016 **Patent No. 201621034274**
3. Horizontle axis wind turbine with multiple rotors with increasing diameter.
PD.06 -10-2016 **Patentno.201621034370**
4. Auxillary Generator wind Turbine Pub.Date 06-10-2016 **Patent No. 201621034298**
5. High Frequency Induction Heating for deicing the wind turbine blade. PD 10-10-2016
Patent No 201621034622
6. Wind turbine Deicing using hot water circulation through wind turbineblades
PD 10-10-2016 **Patent No. 201621034632**
7. Deicing of wind Turbine using circulation of hot air through wind turbine blade.
PD 10-10-2016 **Patent No201621034644**
8. Wind Energy Generation utilizing wind from exhaust fan PD 12-10-2016
Patent No.2016210344790
9. Animal Wool for manufacturing wind turbine blade **Patent No. 201721007668**, March 2017

Publications

1. “**Household Refrigerators**” in All India Seminars on Refrigeration and Air-conditioning. held at Aurangabad. Oct, 30, 31 1998.
2. “**Information Security in Value Chain**” in National conference on Automation in Manufacturing held at Nagpur 8, 9 March 2003.

3. **“Process Improvement via Rapid Prototyping”** In Investment Casting” in National Conference on “Investment Casting”. Held at Central Mechanical Research Institute Durgapur, West Bengal on 22, 23 September.2003.
4. **“Manufacturing Considerations Of Near-Net Shaped parts”** Investment Casting” in National Conference on **“Investment Casting”**. Held at Central Mechanical Research Institute, Durgapur, West Bengal on 22, 23 September 2003.
5. **“Fiber Reinforced Composites”** in National Conference on “Trends In Mechanical Engineering” held at Kakatia Institute Of Technology and Science at Warangal, Hyderabad on 30 August 2003.
6. **“Molecular Nano Technology”** in National Conference on “Trends In Mechanical Engineering” held at Kakatia Institute Of Technology and Science at Warangal, Hyderabad on 30 August 2003.
7. **“An Introduction to Modeling and Simulation”** in National Conference on “Trends In Mechanical Engineering” held at Kakatia Institute Of Technology and Science at Warangal, Hyderabad on 30 August 2003.
8. **“Implementing concurrent Engineering”** in National conference on Advanced Manufacturing and Robotics held Central Mechanical Research Institute, Durgapur, West Bengal on January 10,11 2004.
9. **“Virtual Manufacturing”** in National conference on Advanced Manufacturing and Robotics held Central Mechanical Research Institute Durgapur, West Bengal on January 10,11 2004.
10. **“Mechanical and Structural Characterization of GMAW AA7020 Multipass Butt weld joint”** in International Conference on Design, Manufacturing and Mechatronics held at KJ’s Trinity College of Engineering and Research, Pune on 09&10 Jan 2014.
11. **“Surface Creation Using Scanned Point Clouds with Sharp Features”** in International Conference on Design, Manufacturing and Mechatronics held at KJ’s Trinity College of Engineering and Research, Pune on 09&10 Jan 2014.
12. **“Analysis of Fluid and Thermal Flow due to Disproportional Heating”** in International Conference on Design, Manufacturing and Mechatronics held at KJ’s Trinity College of Engineering and Research, Pune on 09&10 Jan 2014.
13. **“Six Sigma Strategy for World Class Quality – A Case Study”** in International Conference on Design, Manufacturing and Mechatronics held at KJ’s Trinity College of Engineering and Research, Pune on 09&10 Jan 2014.
14. **“Visible Neighborhood Graph from Unstructured Point Clouds”** in International Conference on Design, Manufacturing and Mechatronics held at KJ’s Trinity College of Engineering and Research, Pune on 09&10 Jan 2014.

15. **“Mechanical Design of Flash Vessel using Python & MySQL software”** in International Conference organized by ICRTET & Elsevier , Mar 2014.
16. **“A review of metal matrix composite & its machining”** in ICDM&M 2015 organized by K. J. COE Pune on 11, 12 &13 Feb 2015.
17. **“Experimental investigation of heat transfer enhancement on polished and unpolished (corroded) pipe”** in IJTMR (1.711) e-ISSN No.:2349-9745 1777-1781 organized by SNJB’s college of engg. Chadwad on 2,3 & 4 July 2015.
18. **“CFD Simulation of Natural Pattern Leaf Shape Microchannel Heat Sink ”** in International Journal of Global Technology Initiatives , Volume 4, Issue 1 , March 2015 , ISSN 277-6591 .
19. **“A Review on Experimental Analysis of Fatigue Failure on Composite Material Leaf Spring”** Proceeding of ISTE 2015 International Conference on Design , Manufacturing and Mechatronics ICDMM 2015 , organized by K. J. COE Pune on Feb. 11-13 , 2015 Pune , Maharashtra , India.
20. **“A Review on Drilling of Metal Matrix Composites”** in International Journal of Current Engineering and Technology on 06/10/2016, E-ISSN 2277 – 4106, P-ISSN 2347 – 5161.

SCOPUS INDEXED PAPER PUBLICATIONS

21. **Study of Output Parameters of Horizontal Axis Wind Turbines using Experimental Test Setup**, ICPEICES 2016, IEEE, ISBN: 978-1-4673-8587-9.
22. **Laboratory setup for the study of the effect of Vertical shear on Horizontal Axis wind turbine**, ICPEICES 2016, IEEE, ISBN : 978-1-4673-8587-9
23. **“Voltage Flicker Noise in Wind Turbine Output”** in IEEE International Conference on Circuit, Power and Computing Technologies (ICCPCT – 2017)
24. **“Application of Wind Rose For Wind Turbine Installation”** in IEEE International Conference on Circuit, Power and Computing Technologies (ICCPCT – 2017)
25. **“Wind Turbine Blade Materials for Research in Wind Energy”** in IEEE International Conference on Circuit, Power and Computing Technologies (ICCPCT – 2017)
26. **“Impact of Vertical Wind shear on Wind Turbine Performance”** in IEEE International Conference on Circuit, Power and Computing Technologies (ICCPCT – 2017)
27. **“Research Test Set up for Wind Turbine Models”** in IEEE International Conference on Circuit, Power and Computing Technologies (ICCPCT – 2017)

28. **“Use of Wind rose for Wind Energy Generation”** in IEEE International Conference on Circuit, Power and Computing Technologies (ICCPCT – 2017)
29. **“Curve Models of Voltage Flicker in a Wind Turbine Considering Vertical Wind Shear”** in IEEE International Conference on Circuit, Power and Computing Technologies (ICCPCT – 2017)
30. **“Sixth order model of wind turbine voltage flicker considering vertical wind shear”** in IEEE International Conference on Circuit, Power and Computing Technologies (ICCPCT –2017).
31. **“Adjustable Concentric Towers to Vary Tower Shadow Effect on Flicker in Wind Turbine”** in International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017).
32. **“Fabrication of Wind Turbine from Sheep Wool”** in International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017).
33. **“Ice Elimination from Wind Turbine Blade using Induction Heating”** in International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017).
34. **“Ice Extraction from Wind Turbine using Flow of Hot Air Through Blade”** in International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017).
35. **“Ice Melting from Wind Turbine Blades using Resistive Heating”** in International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017).
36. **“Ice Removal from Wind Turbine using Hot Water Flow through Blade”** in International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017).
37. **“Laboratory Model of Surface Roughness Test Wind Turbine Voltage Flicker”** in International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017).
38. **“Laboratory Test Set up to Study Wind Turbine Tower Models”** in International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017).
39. **“Testing of Wind Generator Models using Motor Drive”** in International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017).

40. **“Towers Fixing Mechanism to Create Wake Effect in a Laboratory Wind Farm Model”** in International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017).
41. **“Tree Mounted Wind Turbine”** in International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017).
42. **“Use of Bamboo for Constructing Ecofriendly Wind Turbine”** in International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017).
43. **“Use of Bicycle and Gear Box for Testing of Wind Generator Model”** in International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017).
44. **“Wind Turbine Blade Fixing Mechanism”** in International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017).
45. **“Wind Turbine Model Testing using Point Source of Air to Create Wind Shear”** in International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017).
46. **“Wind Turbine Model Testing using all Slide Fans Arrangement to Create Turbulence”** in International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017).
47. **“Wind Turbine Model Testing using Blower Fan Sliding Mechanism to Create Wind Shear”** in International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017).

Current Research Area

- Friction and wear properties of different metal , alloys and composites under dry and wet conditions .
- Experimental Investigation of Composite Material Application by using Static and Dynamic analysis.
- 3 Experimental Investigation and Parametric studies in drilling of Metal Matrix composites.

Other Details

- Worked as understudy and Chief Superintendent at JNEC examination centers each for four times.
- Worked as officer and as Joint Director in Central Assessment Scheme at Dr. Babasaheb Ambedkar Marathwada University.
- Shouldered the responsibility of the various educational tours.
- Worked as staff advisor for students' council.
- Shared major responsibilities in arranging youth festival of Dr. Babasaheb Ambedkar Marathwada University in JNEC.
- Made special efforts in membership drive for Institution of Engineers (India) in coordination with JNEC.
- Was always actively involved with various extra curricular activities in the college particularly RAZZMATAZZ (Annual Social Gathering in the capacity of chairman of different committees
- Actively worked for Institution of Engineers Aurangabad center for 10 years.
- Involved in organizing various **training programs for industry people** through QCFI Aurangabad chapter & Institution of Engineers (India).
- Worked as “Treasurer” “Quality circle Forum of India”(QCFI) Aurangabad Chapter since 2003 to 2005.
- Worked as Honorary Secretary Institution of Engineers, (India), Aurangabad center.
- Actively involved in formulating the **procedures of ISO.**
- **Worked as NBA Coordinator.**
- Approved PG Teacher and guide for PhD in SPPU.
- Member of Board of Studies of Mechanical Engineering at Dr. Babasaheb Ambedkar Marathwada University.
- Appointed as Subject Expert for the Selection of Principal, Professor, Assistant Professor and Lecturers at various Engineering Colleges by Pune University.
- Worked as Chief Rector of Boys Hostel (1000) at A.I. T. Pune.

Subjects taught

- Machine Design, Theory of Machines / Dynamics of Machines, Automatic Control Systems, Engineering Graphics, Engineering Metallurgy. Research Methodology.

Special Achievement/Contribution

- Played cardinal role in establishment of six new engineering colleges and two management institutes.

Date:-

Dr. Jaywant B. Sankpal